

NM-2C COPY
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRI. DATE*
(Other Instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

NM-0559532

6. IF INDIAN ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR Harvey E. Yates Company ✓		8. FARM OR LEASE NAME Gates Federal Deep	
3. ADDRESS OF OPERATOR P. O. Box 1933, Roswell, New Mexico 88201		9. WELL NO. 1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 660' FSL & 660' FEL		10. FIELD AND POOL, OR WILDCAT Wildcat	
14. PERMIT NO.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 6, T-17S, R-28E	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3536' DF		12. COUNTY OR PARISH Eddy	
		13. STATE N. M.	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF ☐	PULL OR ALTER CASING ☐	WATER SHUT-OFF ☐	REPAIRING WELL ☐
FRACTURE TREAT ☐	MULTIPLE COMPLETE ☐	FRACTURE TREATMENT ☐	ALTERING CASING ☐
SHOOT OR ACIDIZE ☐	ABANDON* ☐	SHOOTING OR ACIDIZING ☐	ABANDONMENT* ☐
REPAIR WELL ☐	CHANGE PLANS ☐	(Other) DST #1, #2 etc + ran csg ☒	(Other) ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1-29-78 Drilled to depth of 1905'. Circulated hole clean. Released Davis Tool Reverse Unit.

1-31-78 Rig down well service unit.

2-08-78 Rigged up Moranco Rig #6.

2-17-78 DST #1 - 9130' - 9190'

Tool open 7:30 am with weak blow of air increasing to good; surface pressure increased to 10 psi after 30 min IF. Close tool 8:00 am for ISIP; GTS 15 min after closing tool; re-opened tool 9:00 am - 3/8" choke; surface pressure 2½ psi; increased to 33 psi at end of flow period; estimated rate 159.8 MCF/D. Shut well in for FSIP at 10:00 am; pulled packers free and pulled out of hole. Recovered 766' slightly gas cut drilling mud. No show of oil or water. Sampler was plugged - no recovery.

Pressures:

IHP	4400 psi
IFP	319 psi
15 min FFP	350 psi
60 min SIP	3656 psi
2nd IFP	229 psi
60 min FFP	345 psi
120 min SIP	3693 psi
4381 psi	
1450 psi	

RECEIVED
MAR 8 - 1978
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

Cont'd on back

18. I hereby certify that the foregoing is true and correct

SIGNED <u>Paul Hardie</u>	TITLE <u>Engineer</u>	DATE <u>3-6-78</u>
(This space for Federal or State office use)		
APPROVED BY <u>Joe L. Lara</u>	TITLE <u>ACTING DISTRICT ENGINEER</u>	DATE <u>MAR 13 1978</u>
CONDITIONS OF APPROVAL, IF ANY:		

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

GPO 680-160

2-20-78

DST # 2 - 9440' - 9505'

Tool open 11:30 pm with weak blow; no surface pressure; no GTS; close tool 12:00 M for 60 min ISIP; re-open tool 1:00 am with very weak blow; placed on 3/8" choke at 1:15 am; no surface pressure throughout test; close tool at 2:00 am for 2 hour 2nd SIP; pulled packers loose at 4:00 am and pulled out of hole. Recovered 240' drilling mud; no show of oil or gas. Sampler: no pressure; 1900 cc drilling mud; no oil or gas.

Pressures:

IHP	4651 psi
IFP	106 psi
30 min FFP	142 psi
60 min ISIP	177 psi
2nd IFP	124 psi
60 min FFP	142 psi
120 min 2nd SIP	177 psi
FHP	4669 psi
BHT	143° F

3-2-78

Ran 258 joints (10,235') 4½" OD, 11.6#, N-80, J-55 casing set on bottom at 10,250' KB and cemented with 1,050 sx Class H with 6% Halad 22A and 6# Salt/sx. Plug down at 7:20 am 3-2-78. Bumped plug with 2900 psi, released pressure float - held OK. Raised BOP installed 4½" casing slips and released rig 12:00 noon 3-2-78.